

Weekly Report

10/27/2014-11/2/2014

Reserach

- Finish reading the sixth chapter of the book: Statistical Learning Method.
- Read the Introduction to CUDA C/C++ series
- I read a paper about Point-of-Interest Recommendation[1]. The GeoMF model adds geographical information in matrix factorisation:

$$R = PQ^T + XY^T$$

X indicates users' activity area and Y indicates POIs' influence area.

Plan for next week

- Write simple CUDA C programs such as 'Add two vectors together'
- Check my matlab code

References

- [1] Defu Lian, Cong Zhao, Xing Xie, Guangzhong Sun, Enhong Chen, and Yong Rui. Geomf: joint geographical modeling and matrix factorization for point-of-interest recommendation. In *Proceedings of the 20th ACM SIGKDD international conference on Knowledge discovery and data mining*, pages 831–840. ACM, 2014.